

## MCF 3M Opener

Simplify

$$\text{i) } \frac{3^2 \cdot (2^3)^2}{3(2)^2}$$

$$\text{ii) } 3^3 \div 3^{-2}$$

$$\text{iii) } 9^{1/2}$$

$$16^{3/4}$$

Apr 28-10:10 AM

## MCF 3M Opener

Simplify

$$\text{i) } \frac{3^2 \cdot (2^3)^2}{3(2)^2}$$

$$\frac{3^2 \cdot 2^6}{3 \cdot 2^2}$$

$$= 3^1 \cdot 2^4$$

$$\text{ii) } 3^3 \div 3^{-2}$$

$$3^{3 - (-2)}$$

$$3^5$$

$$\text{iii) } 9^{1/2}$$

$$\sqrt[2]{9}$$

$$3$$

$$8^{-2}$$

$$\frac{1}{8^2}$$

$$\frac{1}{64}$$

$$\left( \frac{16^{3/4}}{\sqrt[4]{16}} \right)^3$$

$$2^3$$

$$3^{0.5}$$

$$3^{5/10}$$

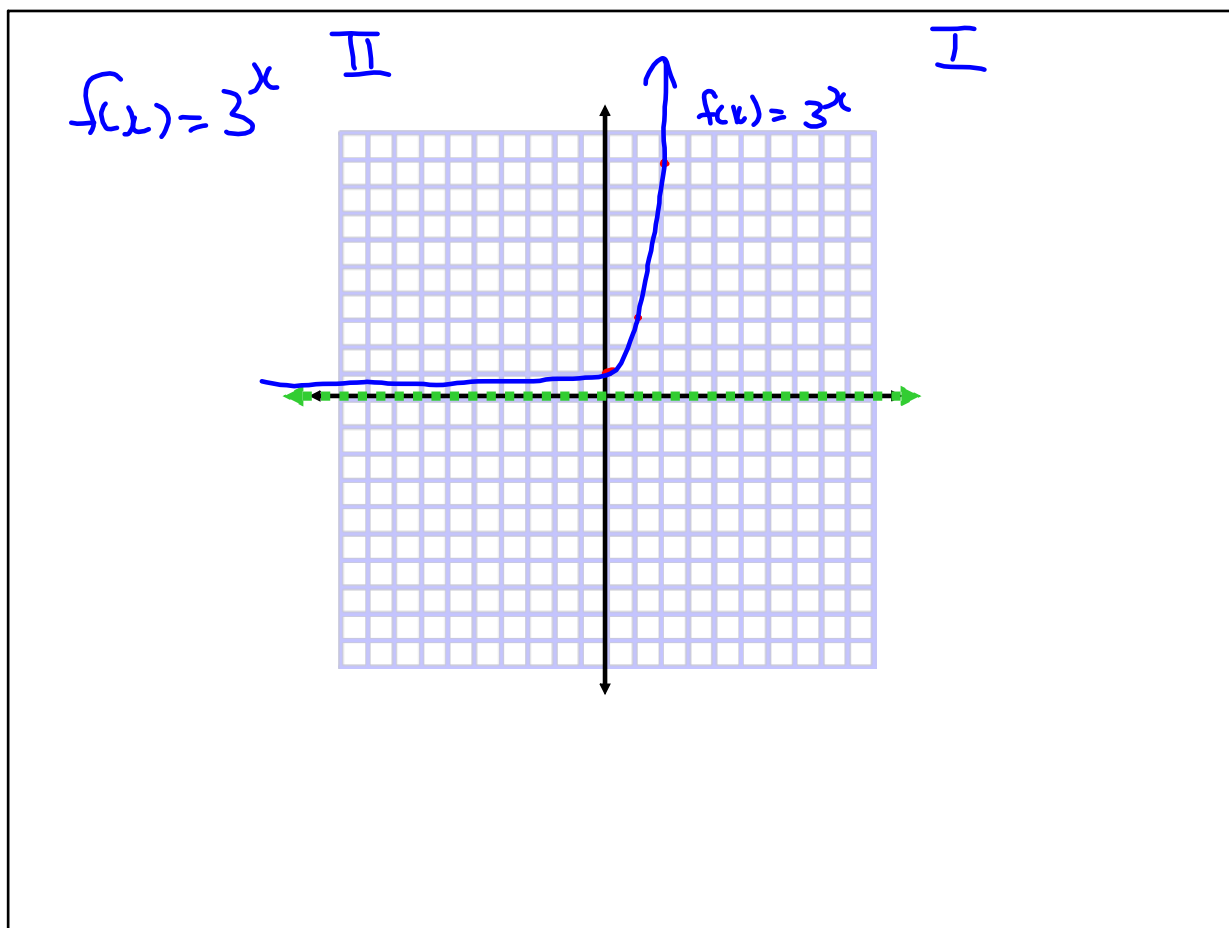
$$3^{1/2}$$

$$\sqrt[2]{3}$$

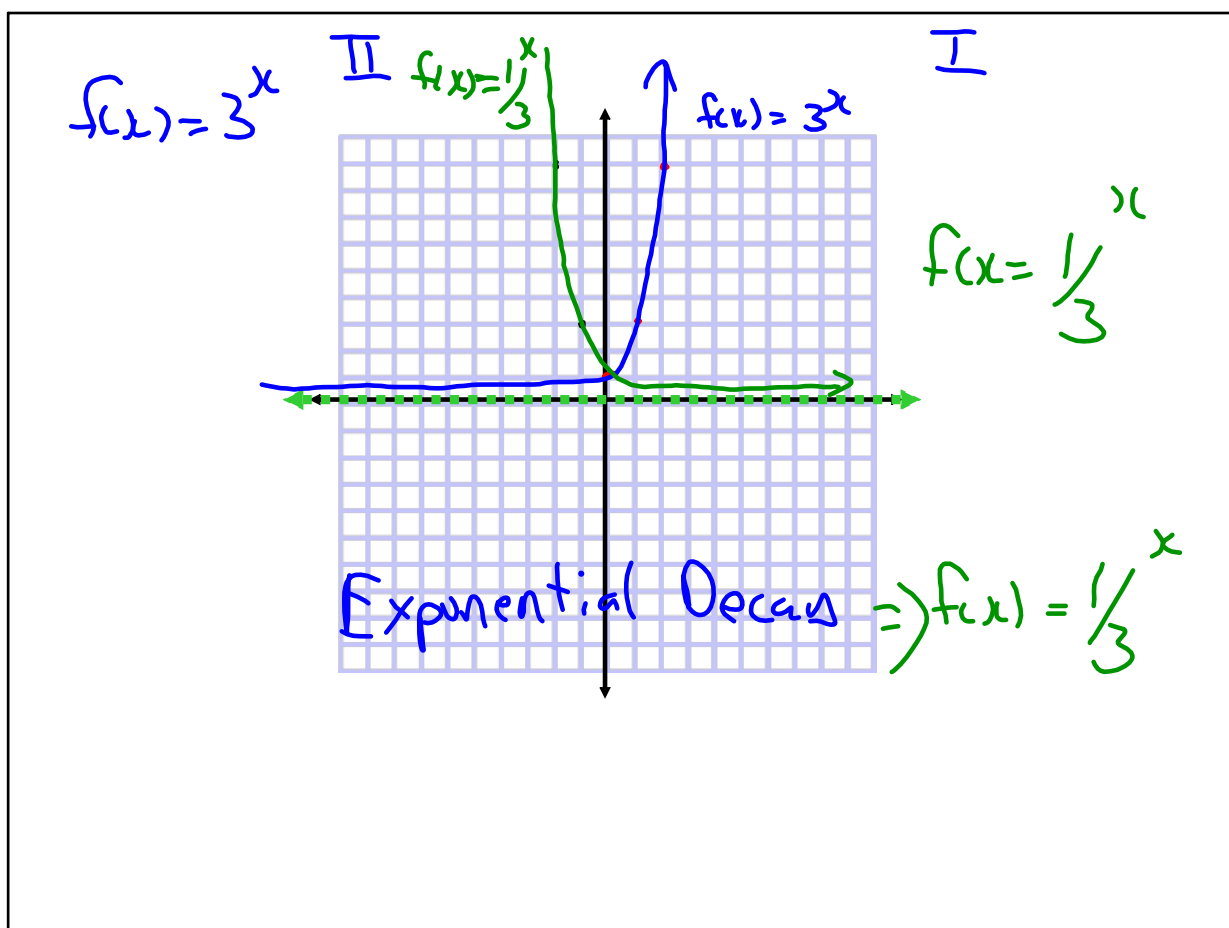
$$\frac{32^{2/5}}{\sqrt[5]{32}} \div (2)^2$$

$$4$$

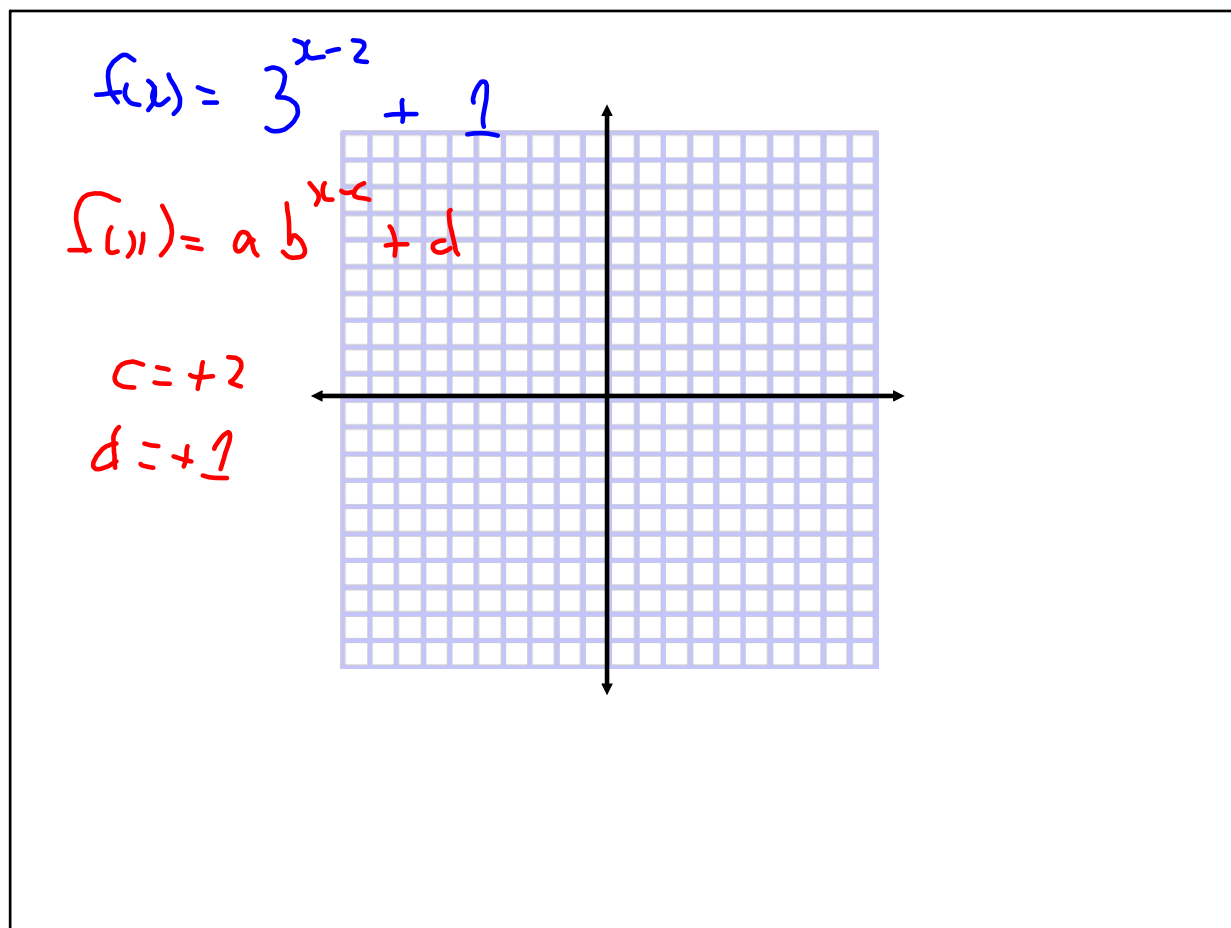
Apr 28-10:10 AM



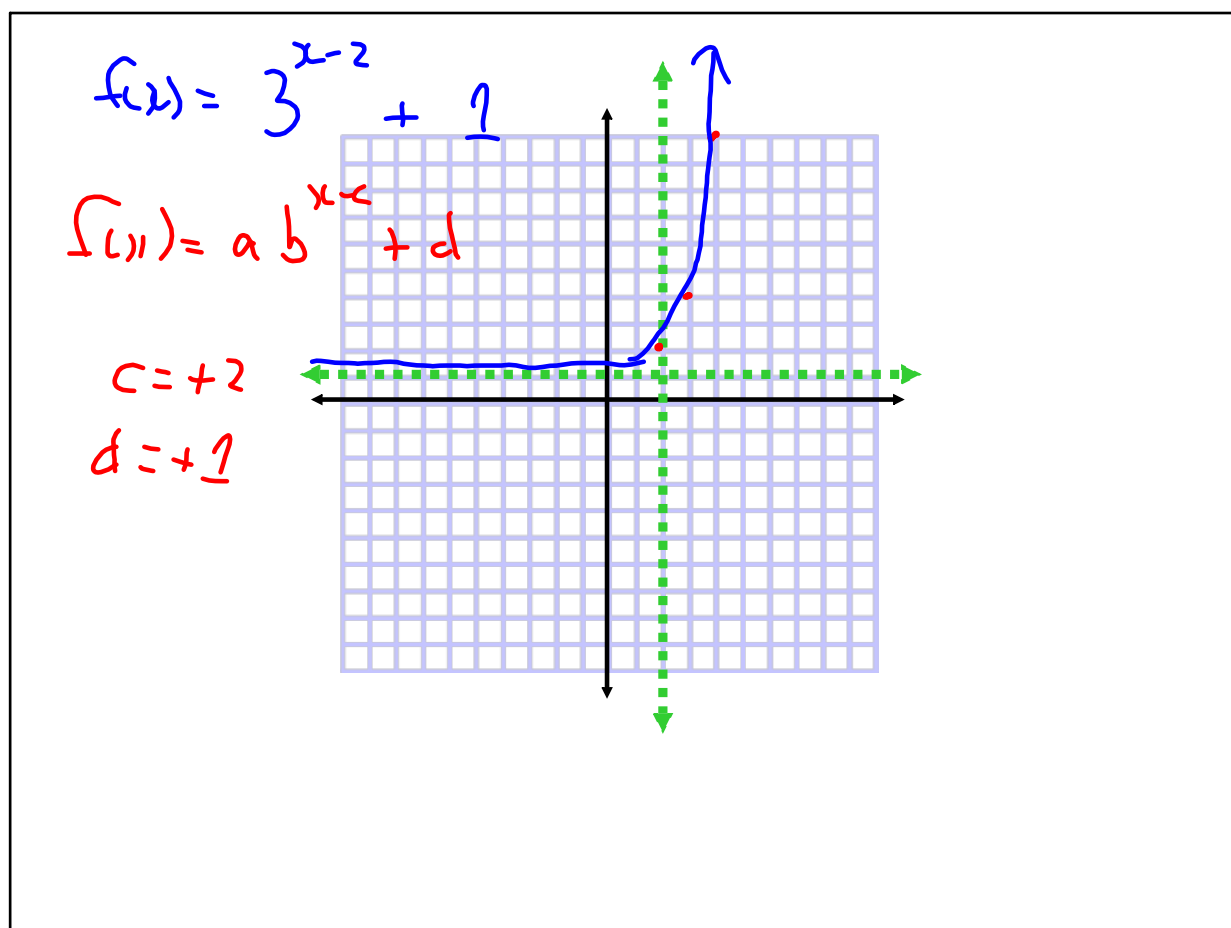
Dec 1-9:40 AM



Dec 1-9:40 AM

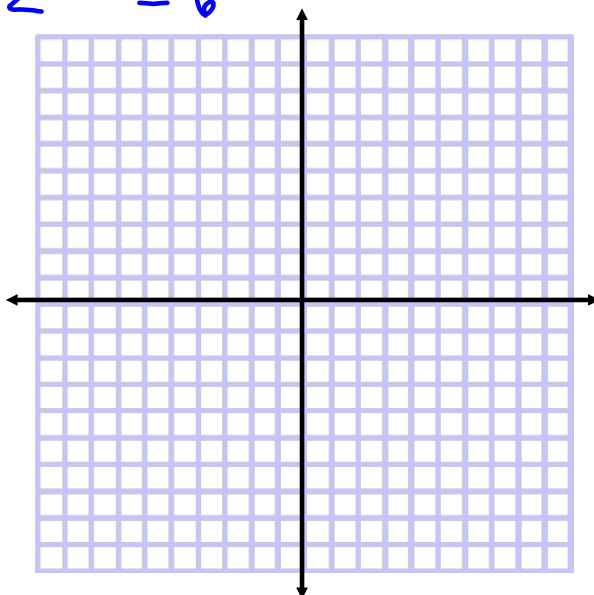


Dec 1-9:40 AM



Dec 1-9:40 AM

$$f(x) = (3)2^{x+1} - 6$$



Dec 1-9:40 AM

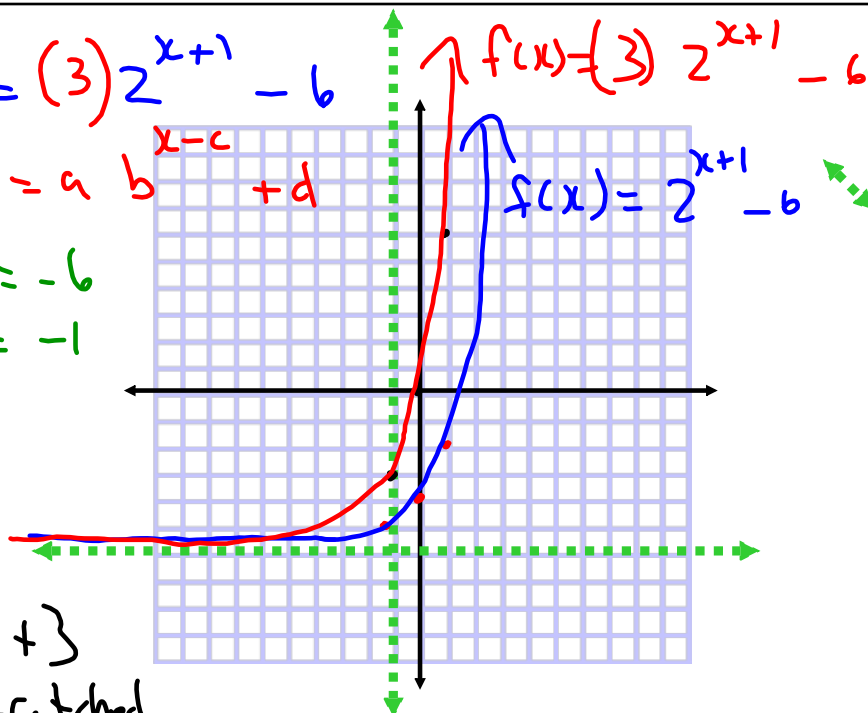
$$f(x) = (3)2^{x+1} - 6$$

$$f(x) = a b^{x-c} + d$$

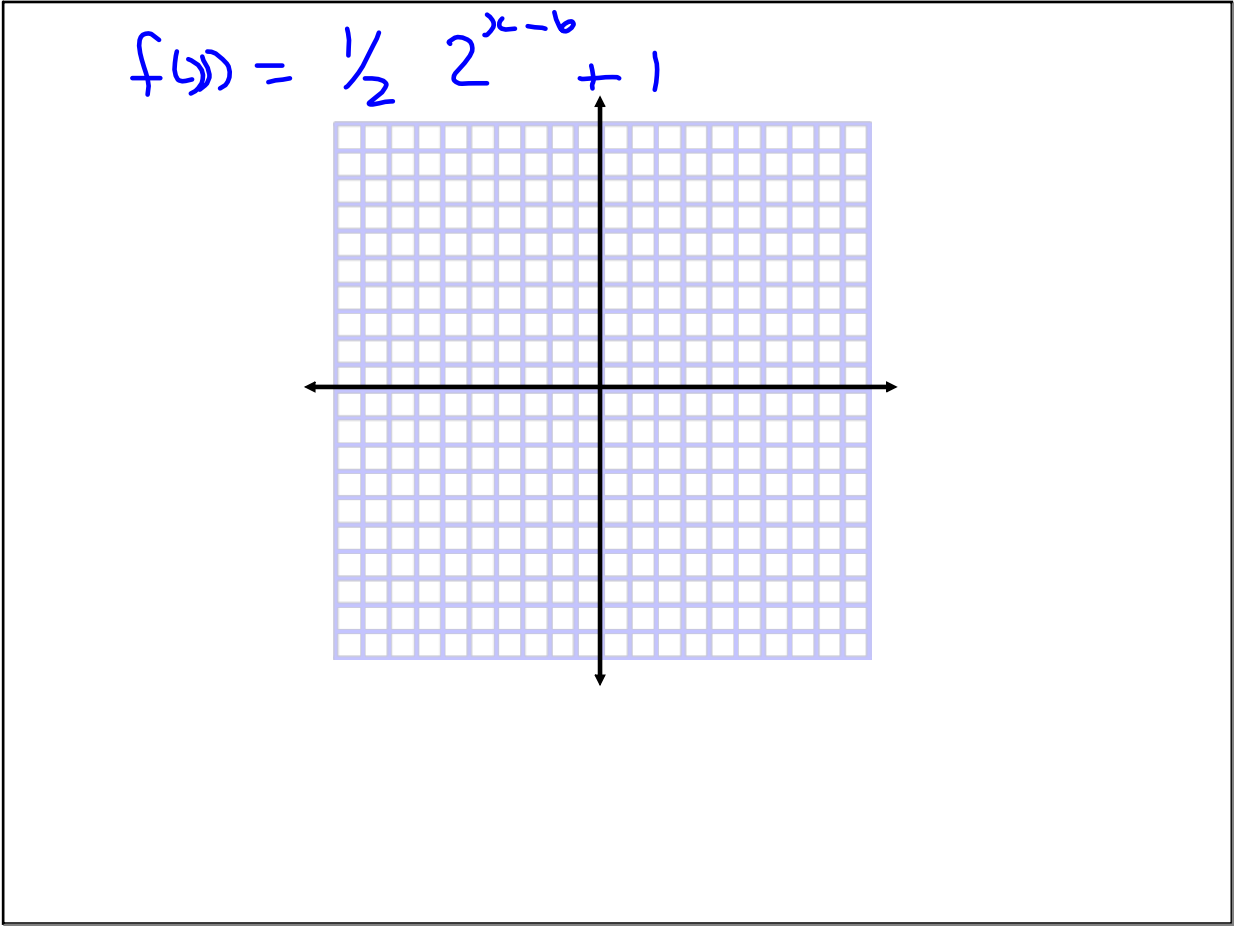
$$d = -6$$

$$c = -1$$

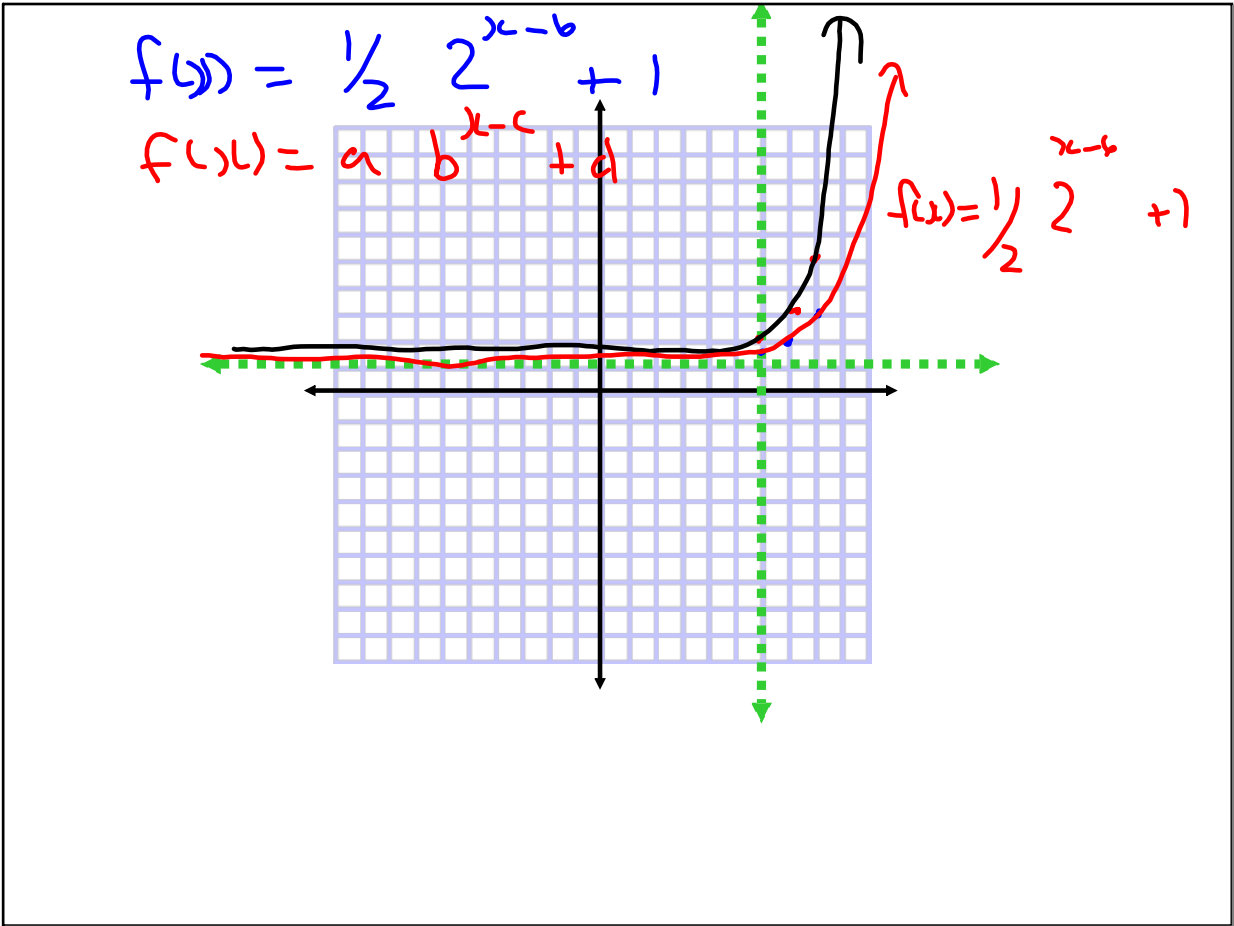
$a = +$   
stretched



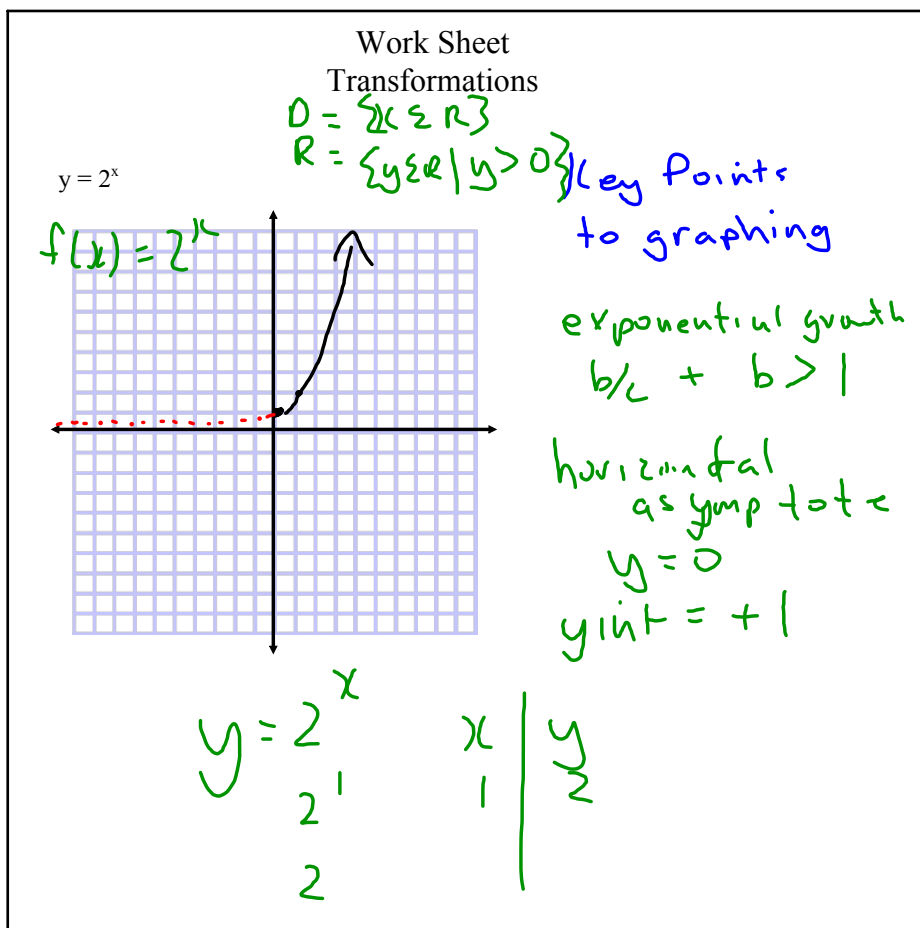
Dec 1-9:40 AM



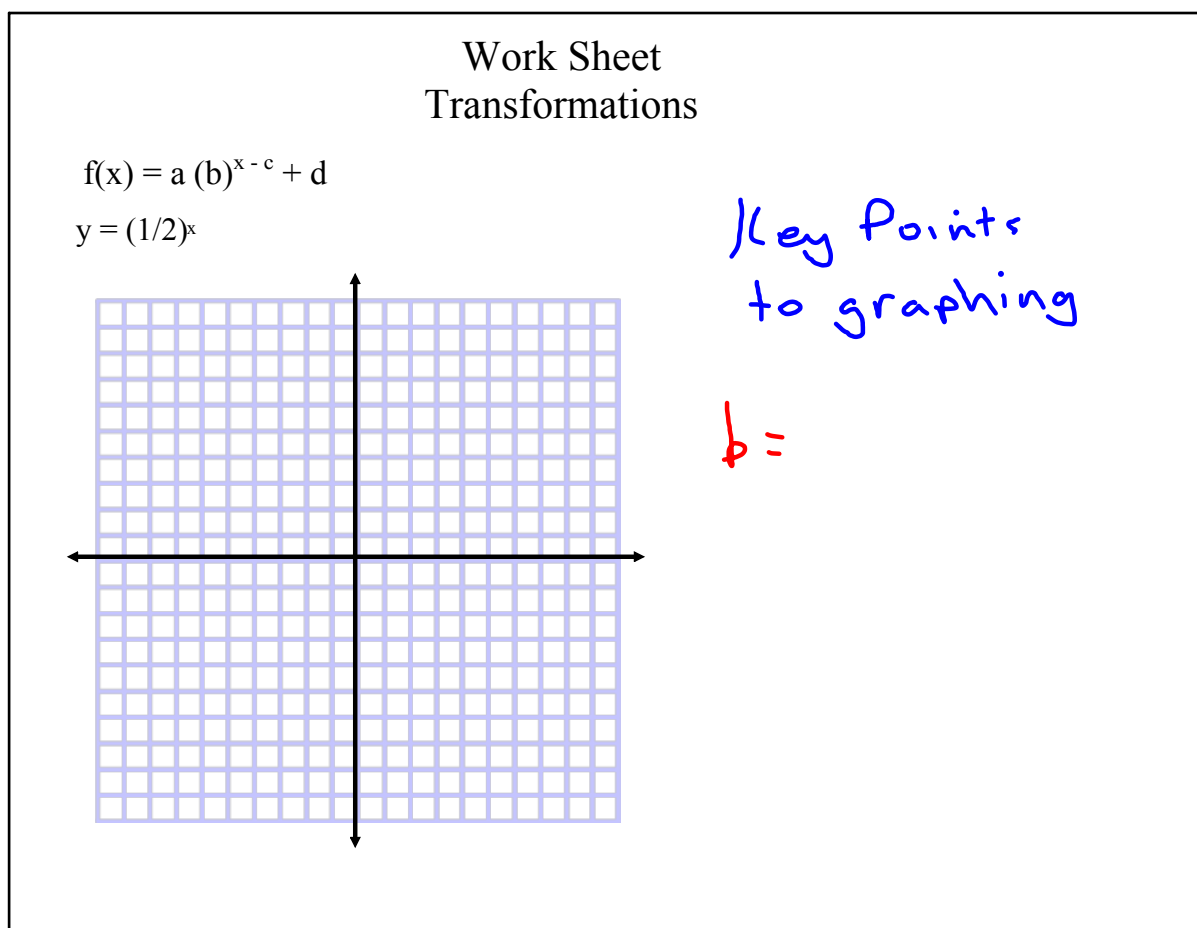
Dec 1-9:40 AM



Dec 1-9:40 AM



Apr 28-9:43 AM

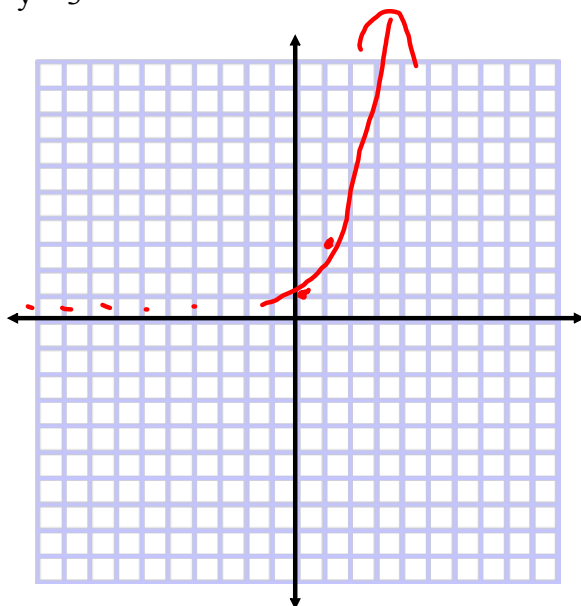


Apr 28-9:43 AM

Work Sheet  
Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = 3^x$$



Key Points  
to graphing

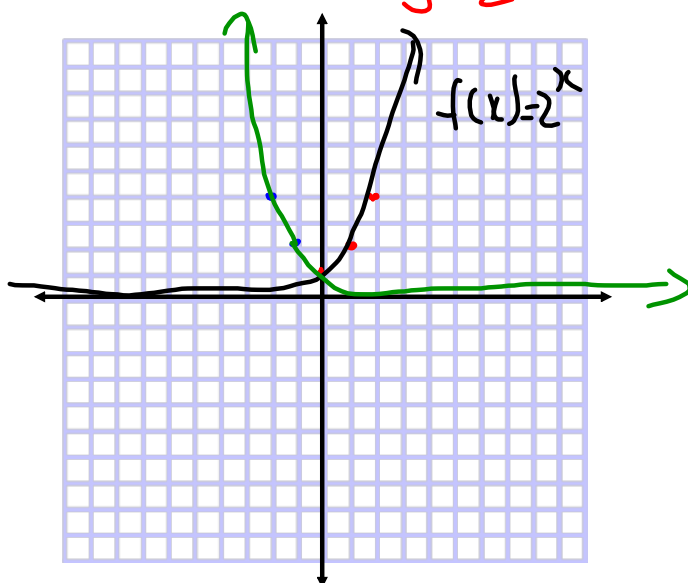
$$b = 3$$

Apr 28-9:43 AM

Work Sheet  
Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = (1/2)^x$$



Key Points  
to graphing

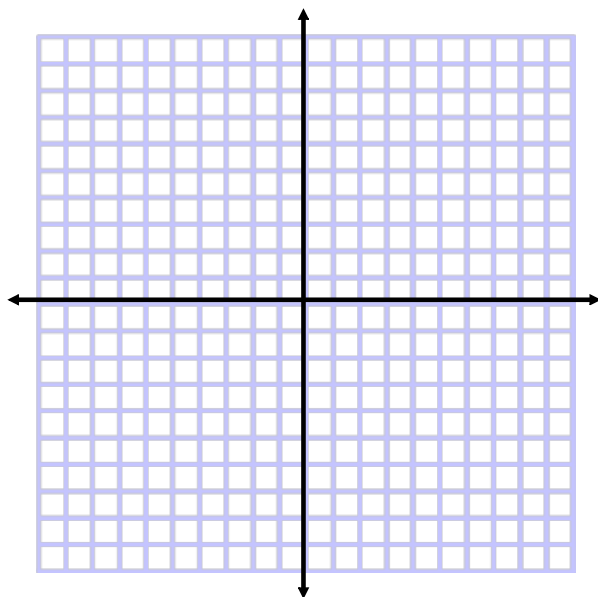
$$b = \frac{1}{2} (0.5)$$

Apr 28-9:43 AM

Work Sheet  
Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = 3^x$$



Key Points  
to graphing

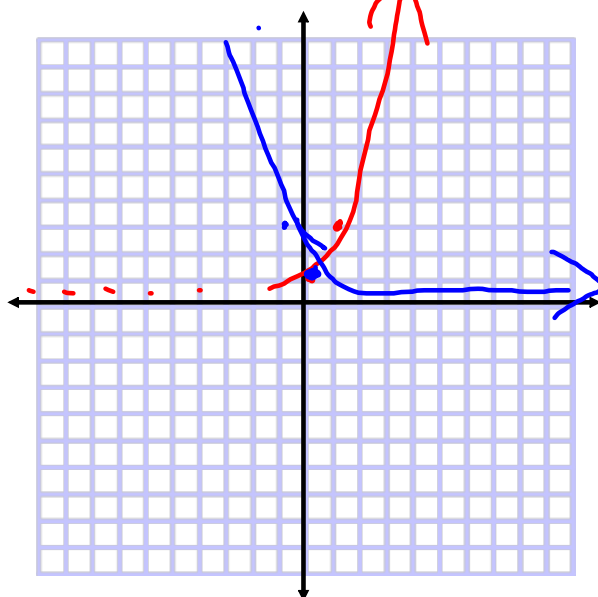
$$b = 3$$

Apr 28-9:43 AM

Work Sheet  
Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = 1/3^x$$

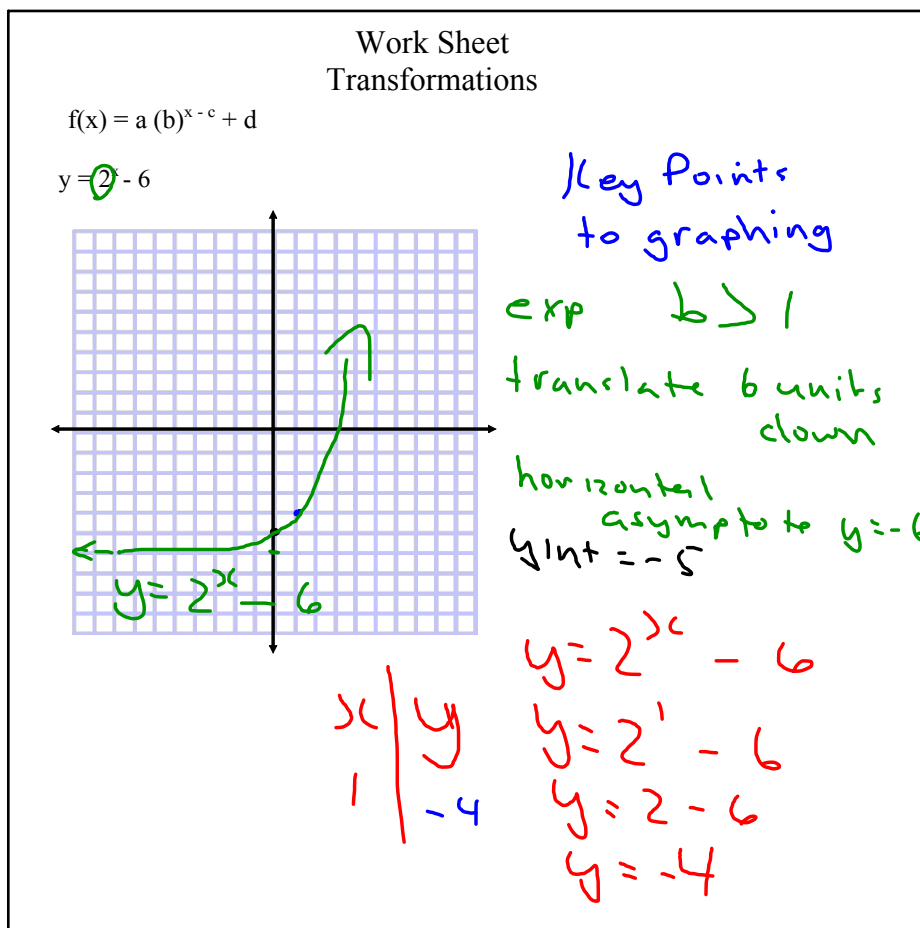


Key Points  
to graphing

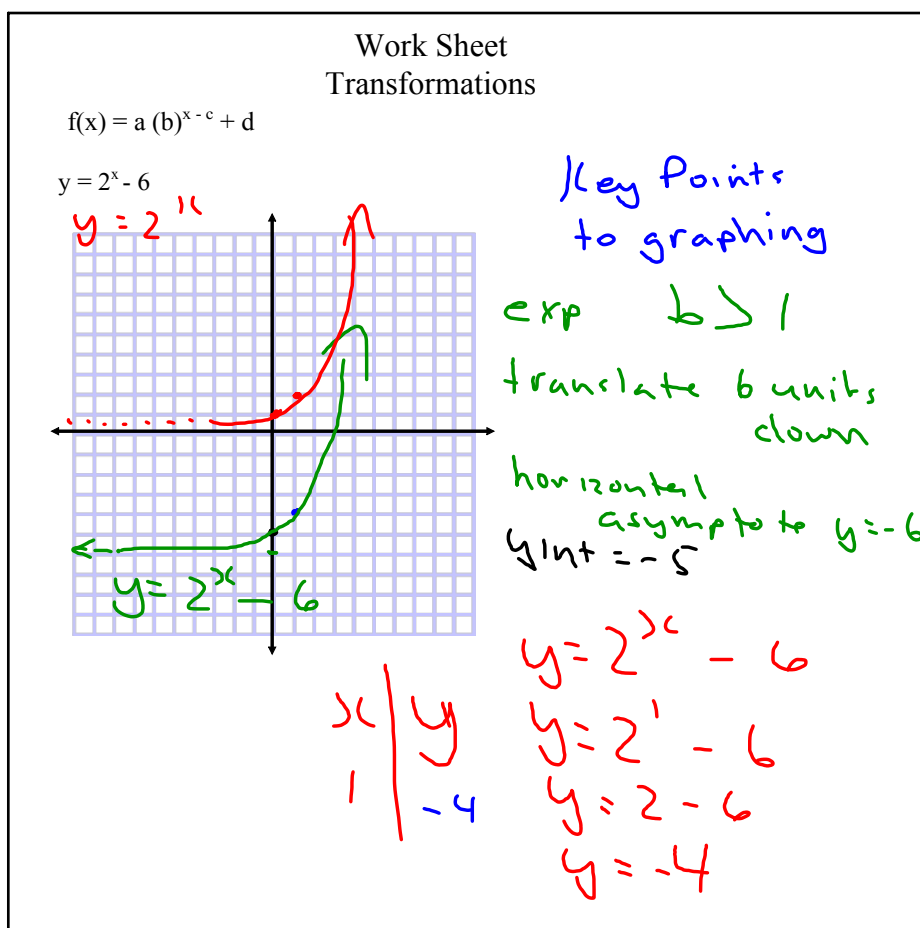
$$b = 1/3$$

Apr 28-9:43 AM





Apr 28-9:43 AM

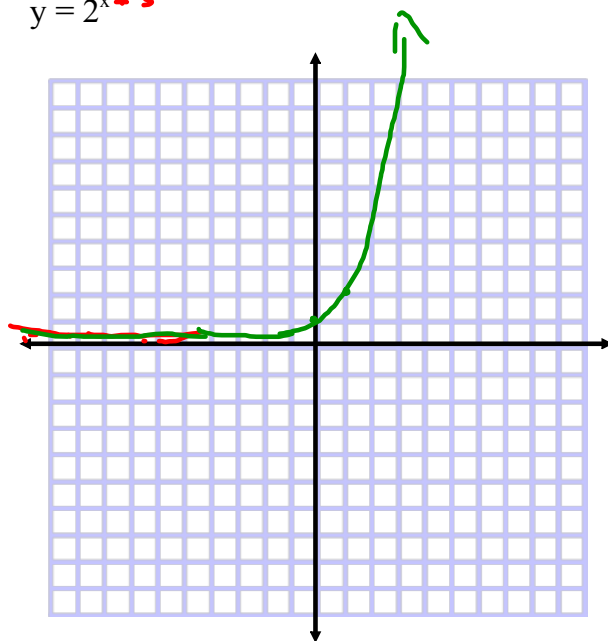


Apr 28-9:43 AM

# Work Sheet Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = 2^{x+3}$$



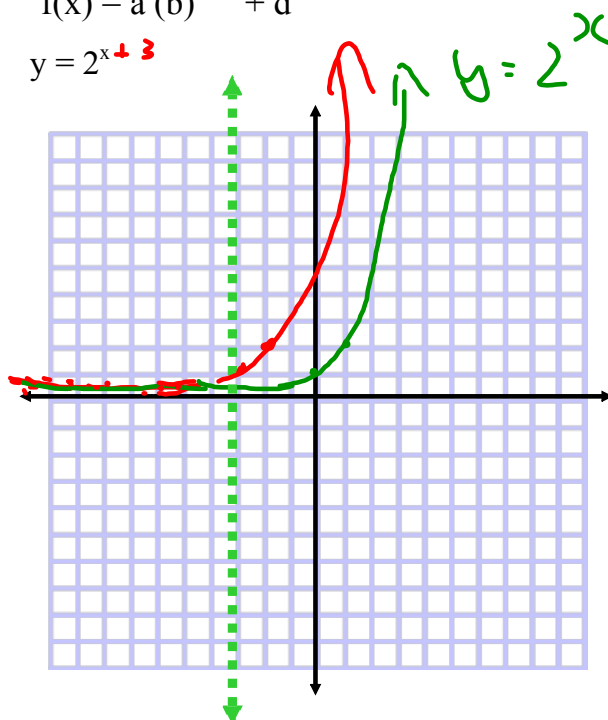
Key Points  
to graphing

Apr 28-9:43 AM

# Work Sheet Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = 2^{x+3}$$



Key Points  
to graphing

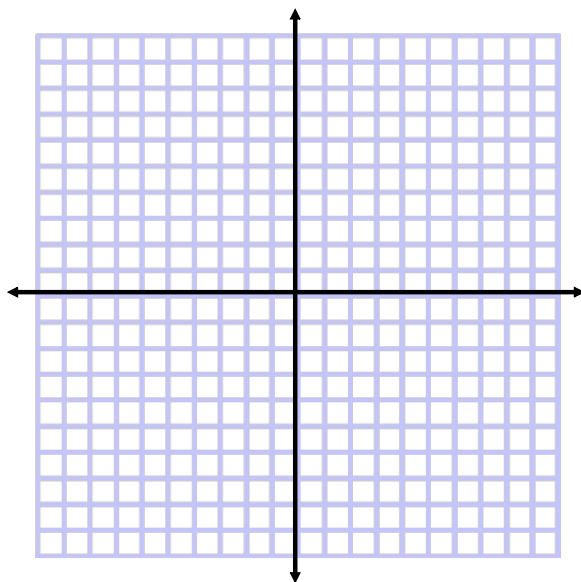
$$c = -3$$

Apr 28-9:43 AM

Work Sheet  
Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = -2^x$$

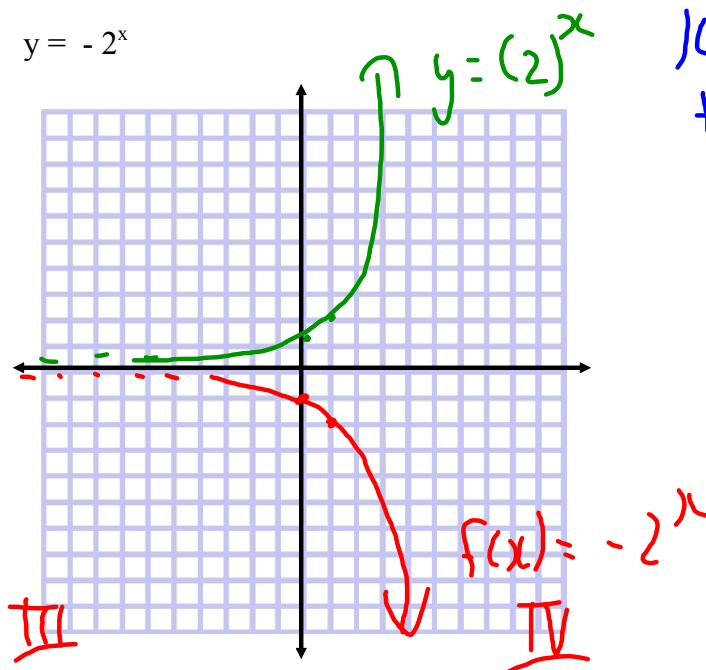
Key Points  
to graphing

Apr 28-9:43 AM

Work Sheet  
Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = -2^x$$

Key Points  
to graphing

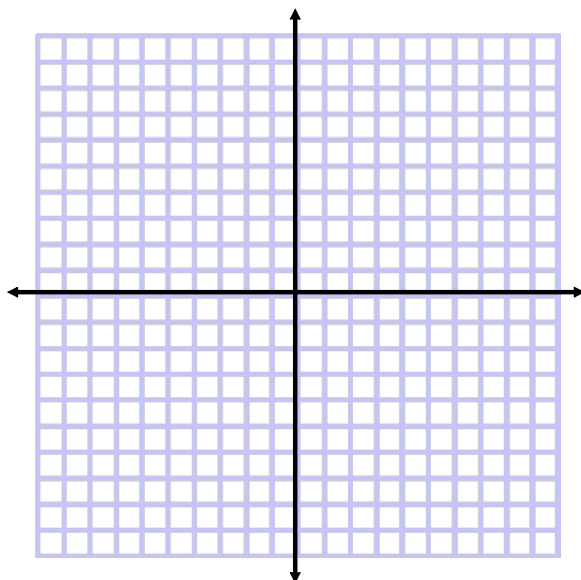
Apr 28-9:43 AM

# Work Sheet Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = (4)2^x$$

Key Points  
to graphing



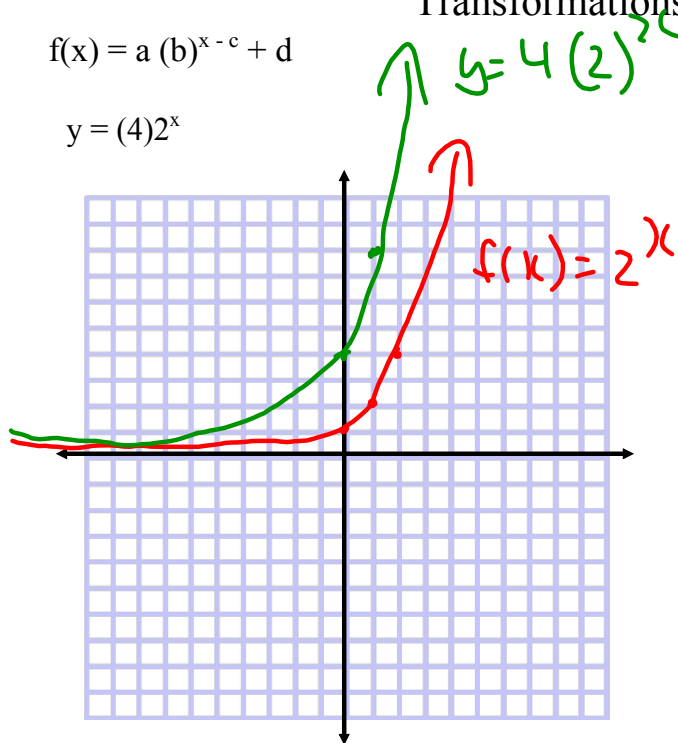
Apr 28-9:43 AM

# Work Sheet Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = (4)2^x$$

Key Points  
to graphing



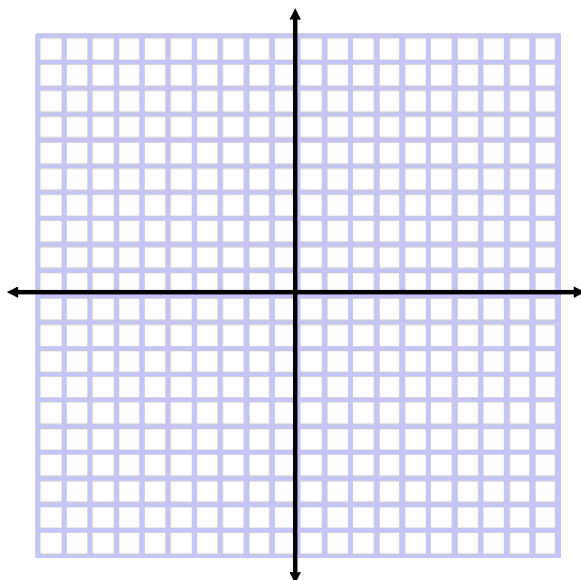
Apr 28-9:43 AM

# Work Sheet Transformations

$$f(x) = a(b)^{x-c} + d$$

$$y = (4)2^{(x-3)}$$

Key Points  
to graphing



Apr 28-9:43 AM

# Work Sheet Transformations

$$f(x) = a(b)^{x-c} + d$$

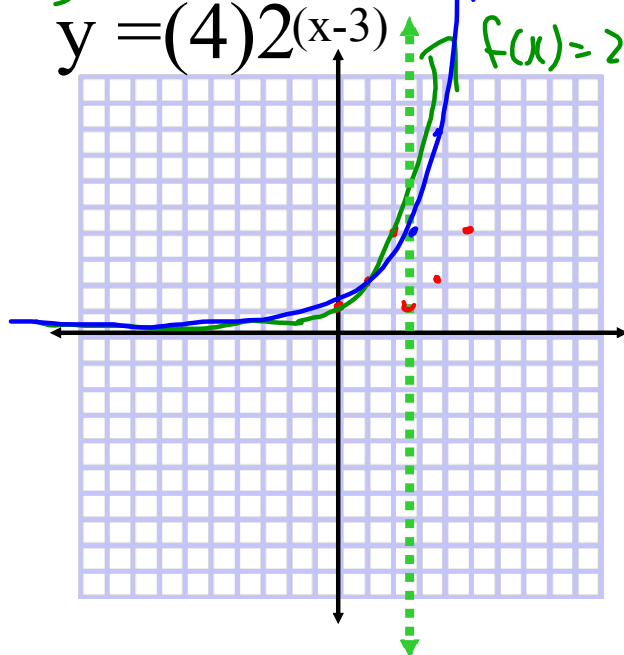
$$y = 2^x$$

$$y = (4)2^{(x-3)}$$

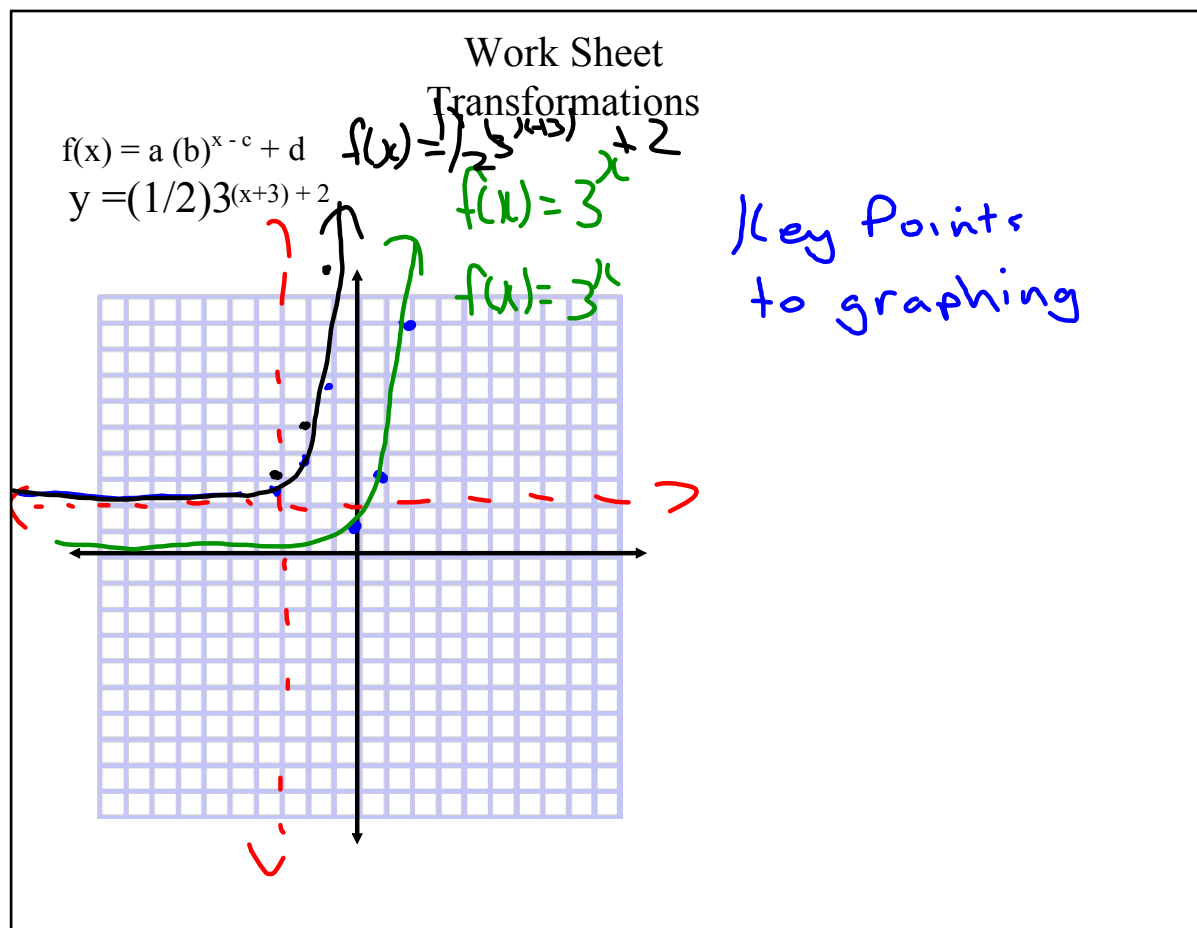
$$f(x) = 4 \cdot 2^{(x-3)}$$

$$f(x) = 2^x$$

Key Points  
to graphing



Apr 28-9:43 AM



Apr 28-9:43 AM

p. 423-424  
q.2, 4 & 5

Dec 5-7:26 AM